Argo-España

Parte de la estrategia global de observación del océano

Report on Argo float WMO 6901250 deployment

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Deployment for Argo float WMO 6901250

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Deployment Design

Taking into account the distribution of the Argo floats in the western Mediterranean, a gap was identified, south east Menorca island (Balearic archipielago). Thus, Argo Spain and SOCIB worked together to carry out a deployment of an Arvor - I float at the study area and thus, extending the coverage of the Argo network in the southern Mediterranean. The float was planned to be deployed on late June but the R/V *Catamaran SOCIB* broke down during *Canales* survey. So, the deployment was carried out during *Bluefin Tuna* survey from the R/V *Catamaran SOCIB* under the supervision of SOCIB team on July 10, 2017 with no issues. There is no CTD cast at the deployment location. Moreover, Coriolis was notified July 11, 2017 and all the information was registered at Argo Information Center database. Technical details are showed next:

Transmision system	IRIDIUM
Transmission ID	463698 n/a
Platform Model	ARVOR I535 C147542-0021
Platform ID	AI2600 - 16SP002
Sensors	DRUCK-2900PSIA SBE41CP-V3 SBE41CP-V3
Sensores s/n	5760 5760 5760
Data Centre (Format Version)	IF (3.1)
Project Name	ARGO SPAIN
Float Owner	SOCIB ICTS
PI Name	Pedro Velez
Parking Depth (dbar)	350 (0350 0350 0350)
Profile depth (dbar)	700 (2000 0700 2000)
Status	Active
Deployment Date	10-Jul-2017 00:00:00
Deployment Position	Lat 39.68 Lon -4.67

Table 1. Technical information of the float.

The checklist was firstly reviewed, full auto-test done on land and double checked at the pre-deployment by *Irene Lizarrán on land and Francisco Alemany on board.* Parameters MC2, MC3, MC11, MC12, MC13, MC14 and MC15 were modified according to scientific requirements. The deployment was developed according to the nine days surface currents forecast. The estimated deployment position according to the predictions was set southeast Menorca island as is shown in Figure 1 (yellow color). Deployment operator: *Francisco Alemany.*

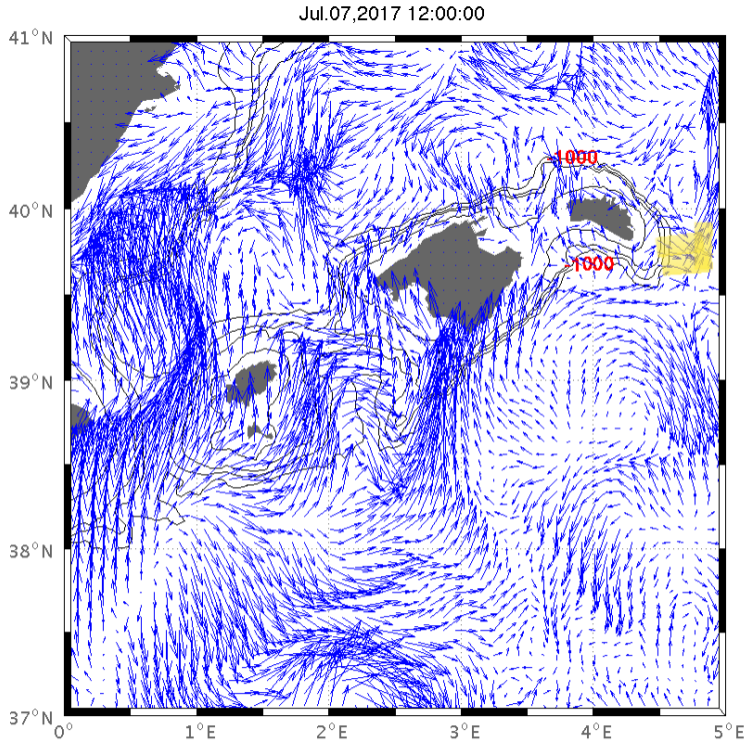

Figure 1: Ocean surface currents forecast for WMO 6901250 from the SOCIB modelling facility.

Incidences

After the deployment on July 10, ARGO Spain waited some hours to make sure the float was working right. The float was drifting on surface under dangerous conditions (possible cruise crash and extra biodeposition). There was location signal by GPS every hour but no profiles developed since the deployment. Romain Cancouët from Euro - Argo ERIC was called to give us some help. After some checks using NKE parser, the trouble was identified: *"It seems your float failed during autotest, because of internal vacuum, because the threshold is too low; this happens when the float is started after been exposed in high sun (boxes on the deck). It is in end of life (MC0=0)"*. Once the problem was known, Arvor - I float was contacted and MC0 parameter was changed from 0 to 300. After this correction, WMO 6901250 developed its first profile on 6 August so far, after almost a month drifting on surface.